

# FILE NOTATIONS

Entered in NID File	.....✓.....	Read by Chief	.....
Location Map Pinned	.....	Final Letter	.....
Card Indexed	.....✓.....	Approval Letter	.....

## COMPLETION DATA:

Date Well Completed	5-26-79	Location Inspected	.....
TA.....		Bond released	
OS..... PA.....✓.....		State or Fee Land	.....

## LOGS FILED

Driller's Log	.....✓.....
Electric Logs (No.)	.....
E..... I..... Dual I Lat..... GR-N..... Micro.....	
BHC Sonic GR..... Lat..... MI-L..... Sonic.....	
CBLog..... CCLog..... Others.....	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-25476 ✓	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR American Quasar Petroleum Co.			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 204 Superior Bldg., 201 N. Wolcott, Casper, Wyo. 82601			8. FARM OR LEASE NAME Federal ✓	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2424.3' FSL & 2444' FWL At proposed prod. zone Same			9. WELL NO. 18-1 ✓	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 10 miles west of Woodruff, Utah			10. FIELD AND POOL, OR WILDCAT Wildcat ✓	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 210.2'			11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA 18-9N-6E ✓	
16. NO. OF ACRES IN LEASE 2250.04			12. COUNTY <del>XX XXXXX</del> 13. STATE Rich Utah	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None			17. NO. OF ACRES ASSIGNED TO THIS WELL --	
19. PROPOSED DEPTH 9500' <i>Weller</i>			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7054' GR			22. APPROX. DATE WORK WILL START* 11/1/78	

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94#	60'	4 yds. - circ. to surf.
17½"	13-3/8"	48#	600'	600 sx - circ. to surf.
12¼"	9-5/8"	36&40#	6,000'	850 sx
8-3/4"	7"	26#	9,500'	450 sx

We plan to test all zones through the Weber formation which exhibit evidence of hydrocarbons and effective porosity. If the well is productive, a 7" production string will be set and cemented and the well completed through perforations.

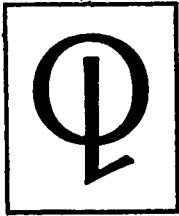
(See attached 10-Point Plan for additional information.)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Kary J. Kaltenbacher TITLE Division Drlg. Engr. DATE 9/15/78  
Kary J. Kaltenbacher  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



# AMERICAN QUASAR PETROLEUM CO.

330 PACIFIC WESTERN LIFE BUILDING / CASPER / WYOMING 82601 U.S.A. / TELEPHONE (307) 265-3362

OUR NEW ADDRESS:

204 SUPERIOR BLDG.  
201 NO. WOLCOTT

September 20, 1978

Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Patrick Driscoll

Re: Federal #18-1  
2424.3' FSL & 2444' FWL  
Section 18-9N-6E  
Rich County, Utah

Gentlemen:

Attached is the Application for Permit to Drill with surveyor's plat for the captioned well, for your approval.

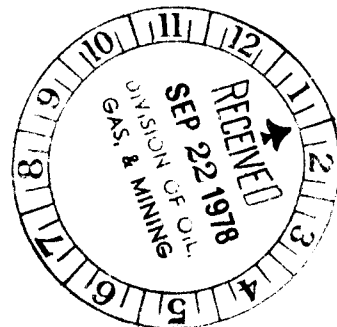
The well was staked as shown (which does not conform to Utah spacing rules) in order to move the location off the top of a steeply sloping ridge onto a relatively flat area of ground (see attached topographic map). The BLM in Salt Lake City requested this move be made for environmental considerations. ✓

If there are any questions, please contact me.

Very truly yours,

*Kary J. Kaltenbacher*  
Kary J. Kaltenbacher  
Division Drilling Engineer

KJK:bh  
Att's



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 210.2'	16. NO. OF ACRES IN LEASE 2250.04	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 18-9N-6E
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20. ROTARY OR CABLE TOOLS Rotary		21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7054' GR
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17½"	13-3/8"	48#	600'	600 sx - circ. to surf.
12¼"	9-5/8"	36&40#	6,000'	850 sx
8-3/4"	7"	26#	9,500'	450 sx

We plan to test all zones through the Weber formation which exhibit evidence of hydrocarbons and effective porosity. If the well is productive, a 7" production string will be set and cemented and the well completed through perforations.

(See attached 10-Point Plan for additional information.)

State of Utah, Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Kary J. Kaltenbacher TITLE Division Drlg. Engr. DATE 9/15/78  
Kary J. Kaltenbacher

(This space for Federal or State office use)

PERMIT NO. WPM APPROVAL DATE NOV 22 1978  
ACTING DISTRICT ENGINEER  
APPROVED BY WPM TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

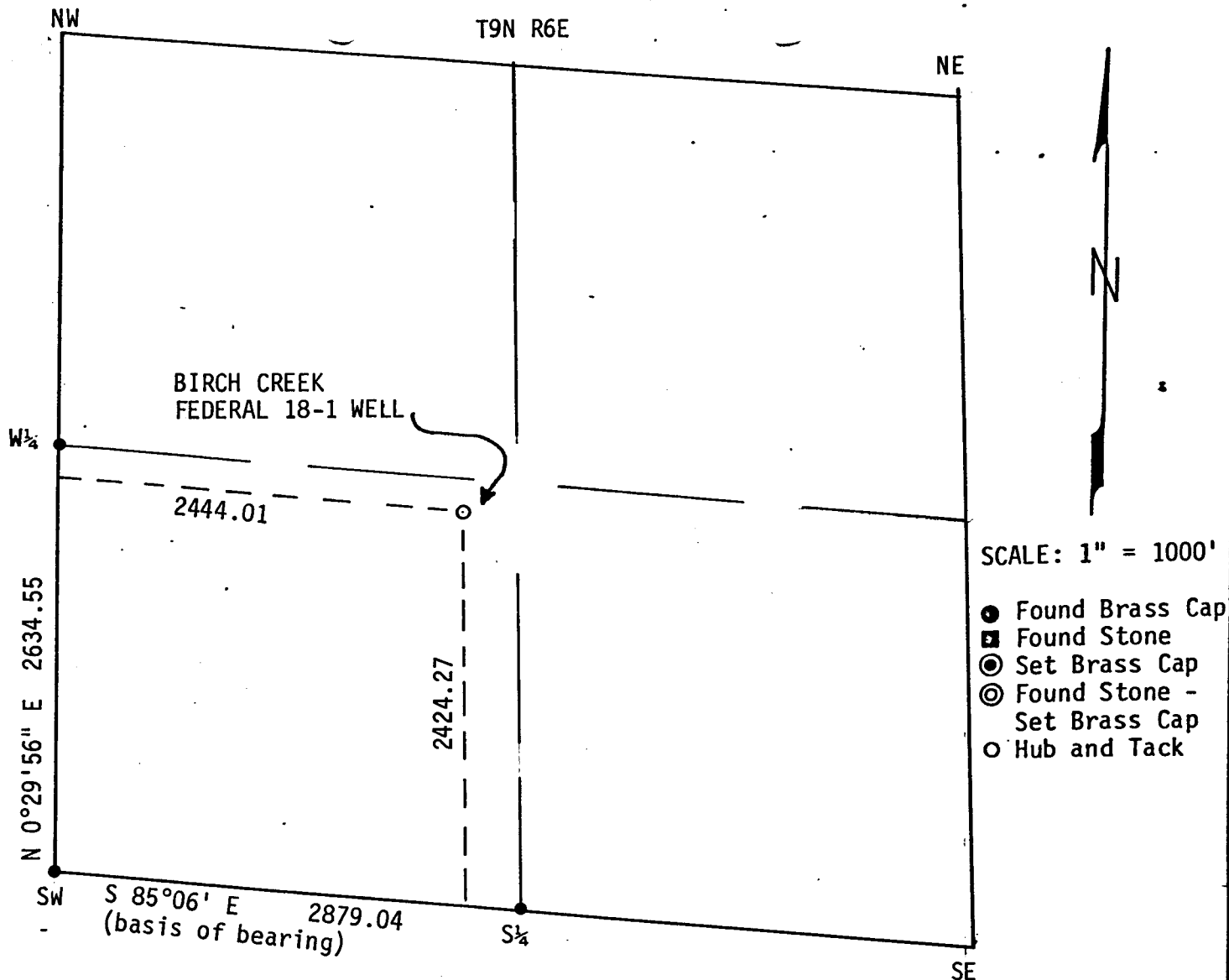
CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

NOTICE OF APPROVAL

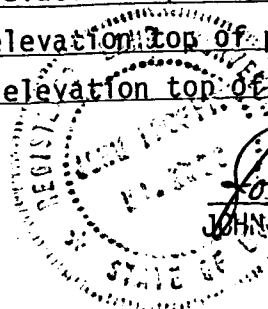
\*See Instructions On Reverse Side

NECESSARY FLARING OF GAS DURING  
DRILLING AND COMPLETION APPROVED  
SUBJECT TO ROYALTY (NTL-4)

State O & G



I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Kary Katlenbacher of Casper, Wyoming for American Quasar I made a survey on the 12th day of September, 19 78 for Location and Elevation of the A.Q. Birch Creek Federal 18-1 Well as shown on the above map, the wellsite is in the NE 1/4 of the SW 1/4 of Section 18, Township 9N, Range 6E of the S.L.B.M., Rich County, State of Utah, Elevation is 7054 Feet top of hub Datum USGS Quadrangle Map, Birch Creek Reservoirs; spot elevation 600' SE of S 1/4 Section 18, elevation 6834 Reference point North 200', elevation top of pin - 7056.1 Reference point East 200', elevation top of pin - 7038.4 Reference point South 200', elevation top of pin - 7037.1 Reference point West 200.5', elevation top of pin - 7072.5



John A. Proffit 9/13/78  
JOHN A. PROFFIT, Utah R.L.S. NO. 2860

DATE: 13 September 1978  
JOB NO.: 78-14-20

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET, EVANSTON, WYOMING

## TEN POINT PLAN

Federal #18-1  
SW¼ of Sec. 18-9N-6E  
Rich County, Utah

1. This well will be spudded penetrating the Wasatch formation.
2. Estimated tops of important geologic markers are:

Wasatch	Surface
Twin Creek	200'
Nugget	2,100'
Ankareh	3,305'
Thaynes	4,900'
Woodside	7,300'
Dinwoody	8,100'
Phosphoria	8,425'
Weber	9,053'
Thrust Fault	9,350'
T.D.	9,500'

3. Porosity is expected to be encountered with the potential of either oil and gas or water production from the following zones and depths:

Dinwoody	8,100'
Phosphoria	8,425'
Weber	9,053'

4. The proposed casing program is indicated under Item 23 on Form DOGC-1a attached. New K-55 and N-80 casing will be used.
5. The blowout preventer specifications and schematic are attached as a separate exhibit. Yellow Jacket Testers will test the blind rams, pipe rams and manifold to their 5000 psi working pressure and the hydril to 2500 psi prior to drilling out surface pipe and intermediate casing and every 30 days thereafter. Pipe rams will be operationally tested daily. Blind rams will be operationally tested when drill pipe is out of hole.
6. The well will be spudded and drilled to 600', using fresh water and gel as necessary to clean hole. From 600' to TD, a Gel-Benex mud system will be used with additions of CMC to maintain a 6-8 cc water loss. No abnormal pressures are expected, but weighting material (Barite) will be kept on location in case it is needed. The mud weight will be 9.0-9.4 ppg, with the viscosity 36-40 sec.

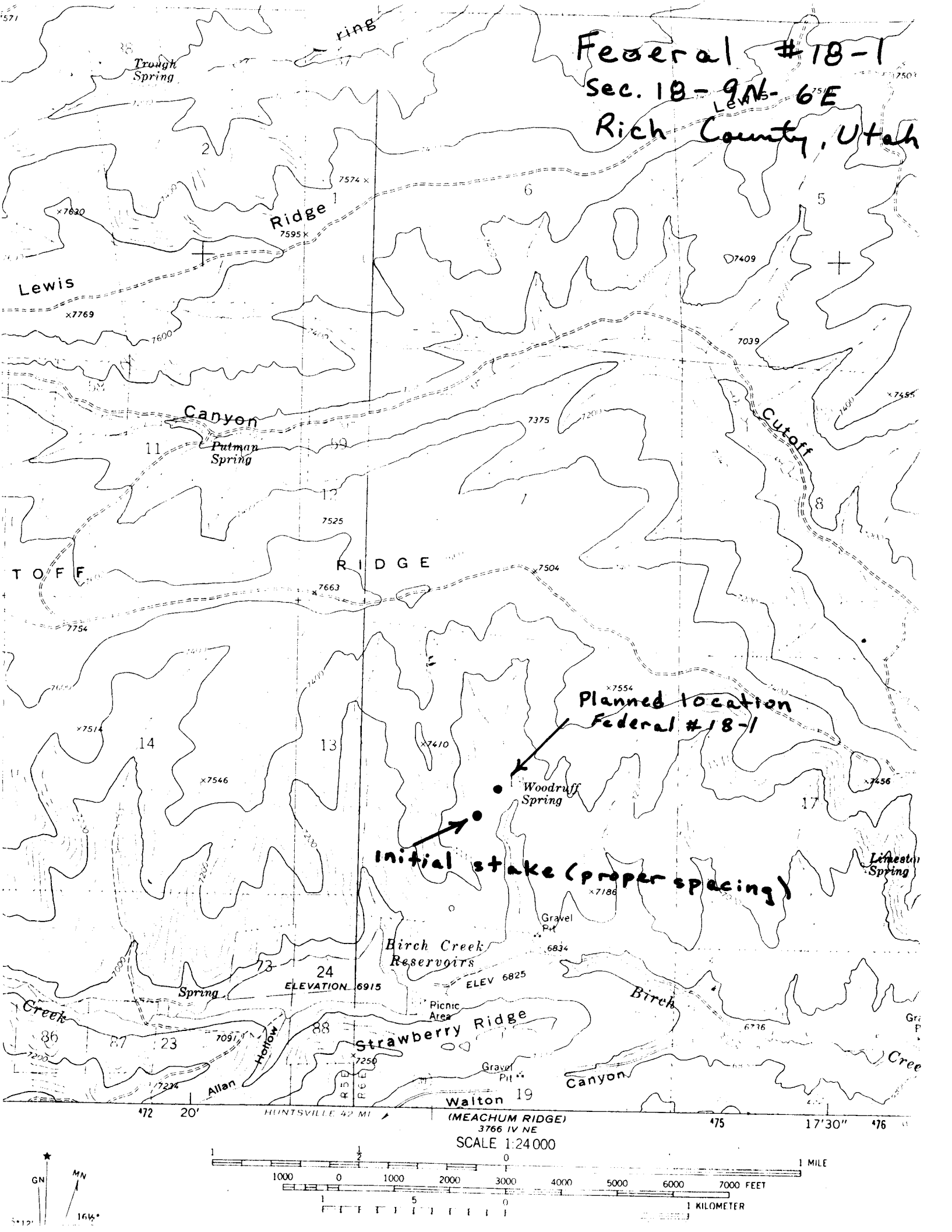
7. Drill string will have an upper and lower kelly cock, PVT and flow sensor, and floor valve. No float will be used at bit. A mud logger will be used from below surface pipe to TD w/H<sub>2</sub>S detector.
8. Drill stem tests will be taken of all zones that indicate porosity and hydrocarbons. The logging program will be as follows:

DIL & DLL	600' - TD
Int-Sonic Log	600' - TD
Comp. Neutron Dens.	As needed
Dipmeter, Seismic Survey	As needed

If well is deemed productive out of any of the 5 possible pay zones, a 7" casing string will be set and the well completed through perforations.

At present, it is not planned to frac nor acidize any of the formations. If such operations are decided upon, then a sundry notice to supplement this 10-point plan will be submitted to the USGS. No fracturing nor acidizing operations will commence until approval is received from the USGS.

9. No abnormal pressures or temperatures, water flows nor extreme loss of circulation are anticipated. H<sub>2</sub>S may be encountered in the Dinwoody and Phosphoria formations. All precautions will be taken to comply with the proposed provisions of NTL-10 and all H<sub>2</sub>S requirements of the State of Utah.
10. Anticipated starting date is November 1, 1978. Drilling operations should last approximately 120 days, spud to T.D.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

**Federal #18-1**  
**Sec. 18-9N-6E**  
**Rich County, Utah**

**Planned location Federal #18-1**

**Initial stake (proper spacing)**

**SCALE 1:24,000**

**1 MILE**

**1 KILOMETER**

**7000 FEET**

**6000**

**5000**

**4000**

**3000**

**2000**

**1000**

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STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

NE  
SW  
web  
Eaton

Date: Sept. 25, 1978

Operator: American Quasar Petroleum Inc.

Well No: Federal 18-1

Location: Sec. 18 T. 9N R. 6E County: Rich

File Prepared: ☐

Entered on N.I.D.: ☐

Card Indexed: ☐

Completion Sheet: ☐

API Number: 43-033-30019

CHECKED BY:

Administrative Assistant: [Signature]

Remarks: OK

Petroleum Engineer: OK [Signature]

Remarks: OK Topo.

Director: [Signature]

Remarks: 7

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: ☒

Survey Plat Required: ☐

Order No. \_\_\_\_\_

Surface Casing Change ☐  
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site ☒

O.K. Rule C-3 ☐

O.K. In \_\_\_\_\_ Unit

Other: \_\_\_\_\_

☒ Letter Written/Approved



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

I. DANIEL STEWART  
Chairman

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

October 3, 1978

American Quasar Petroleum Company  
204 Superior Building  
Casper, Wyoming 82601

Re: Well No's:  
Minnow Hill 29-1,  
Sec. 29, T. 9 N, R. 8 E,  
✓ Federal 18-1,  
Sec. 18, T. 9 N, R. 6 E,  
Rich County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with Rule C-3 and Rule C-3(c) respectively.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL  
HOME: 582-7247  
OFFICE: 533-5771

or CLEON B. FEIGHT  
HOME: 466-4455  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are:

#29-1: 43-033-30018

#18-1: 43-033-30019

Very truly yours,

CLEON B. FEIGHT  
Director

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-25476

OPERATOR: American Quasar Petroleum Co.

WELL NO. 18-1

LOCATION: NE 1/4 NE 1/4 SW 1/4 sec. 18, T. 9N., R. 6E., SLM

Rich County, Utah

1. Operator predicted stratigraphy and predicted hydrocarbon zones are adequate? Yes.  
If not, USGS predictions are:
2. Fresh water aquifers probable below surface casing? Yes. Within Wasatch and Twin Creek to about 1,000 feet below surface.
3. Other probable leasable minerals? Phosphate in the Phosphoria but too deep to be of economic interest.
4. Are hazardous fluids or gases likely? Operator reports H<sub>2</sub>S may be encountered in the Dinwoody and Phosphoria formations and this would appear to be a real possibility in the area and rocks involved.
5. Are abnormal conditions of pressure or temperature likely? No.
6. Will any strata penetrated need special mud, casing, or cementing beyond that proposed in the APD? Unlikely
7. Is additional logging or sampling needed? No.
8. References - remarks: USGS Files, Salt Lake City, Utah  
Is location within 2 miles of a KGS? No.

Signature: Donald C. Alford

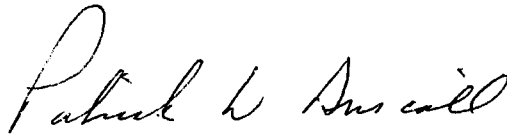
Date: 10 - 11 - 78

November 2, 1978

MEMO TO FILE

Re: AMERICAN - QUASAR, INC.  
Well No. Federal 18-1  
Sec. 18, T. 9N, R. 6E  
Rich County, Utah

This proposed drill site was inspected on the above date. At this time, no activity was taking place.

A handwritten signature in cursive script, reading "Patrick L. Driscoll".

PATRICK L. DRISCOLL  
CONSULTANT

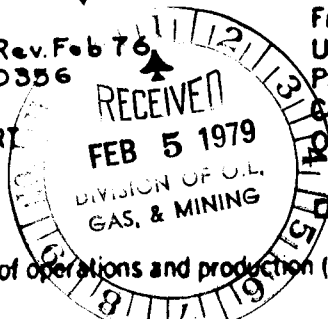
PLD/lw  
cc: U.S. Geological Survey

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Lease No. U-25476 - Federal

Form 9-329 Rev. Feb 76  
OMB 42-RO356

MONTHLY REPORT  
OF  
OPERATIONS



Communitization Agreement No. \_\_\_\_\_  
Field Name Wildcat  
Unit Name \_\_\_\_\_  
Participating Area \_\_\_\_\_  
County Rich State Utah  
Operator American Quasar Petroleum Co.  
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of  
January, 19 79

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-1	18-NE SW	9N	6E	Drilg. @ 2853'					

\*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Sold	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	XXXXXXXXXXXXXXXXXXXX
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: \_\_\_\_\_

John F. Sindelar

Title: Division Drilg. Supt.

Address: 204 Superior Bldg. Casper, Wyo. 82601

Page 1 of 1

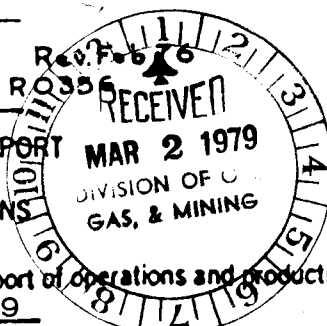
c/c to: State of Utah, Div. of Oil, Gas & Mining

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form 9-329

OMB 42-RQ356

MONTHLY REPORT  
OF  
OPERATIONS



Lease No. U-25476 - Federal

Communitization Agreement No.                     

Field Name Wildcat

Unit Name                     

Participating Area                     

County Rich

State Utah

Operator American Quasar Petroleum Co.

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of February, 19 79

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-1	18-NE SW	9N	6E	Drilg. @ 5912'	(Ankareh).				

\*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

Oil & Condensate  
(BBLs)

Gas  
(MCF)

Water  
(BBLs)

\*On hand, Start of Month

\*Produced

\*Sold

\*Spilled or Lost

\*Flared or Vented

\*Used on Lease

\*Injected

\*Surface Pits

\*Other (Identify)

\*On hand, End of Month

\*API Gravity/BTU Content

Authorized Signature: John F. Sindelar

John F. Sindelar

Title: Division Drilg. Supt.

Address: 204 Superior Bldg.  
Casper, Wyo. 82601

Page 1 of 1

c/c to: State of Utah, Div. of Oil, Gas & Mining

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76  
OMB 42-RO356

MONTHLY REPORT  
OF  
OPERATIONS

Lease No. U-25476 - Federal

Communitization Agreement No. \_\_\_\_\_  
Field Name Wildcat  
Unit Name \_\_\_\_\_  
Participating Area \_\_\_\_\_  
County Rich State Utah  
Operator American Quasar Petroleum Co.

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of  
March, 19 79

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
18-1	18-NE SW	9N	6E	POH w/bit @ 8510' (Thaynes).					

\*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Sold	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: \_\_\_\_\_

John F. Sindelar

Title: Div. Drlg. Supt.

Address: 204 Superior Bldg.  
Casper, Wyo. 82601

c/c to: State of Utah, Div. of Oil, Gas & Mining

Page 1 of 1

U.S.G.S

SUBMITTED IN TRIPLICATE\*  
(Refer instructions on reverse side)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> Dry		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> U-25476	
2. <b>NAME OF OPERATOR</b> American Quasar Petroleum Co.		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b>	
3. <b>ADDRESS OF OPERATOR</b> 204 Superior Bldg., Casper, Wyoming 82601		7. <b>UNIT AGREEMENT NAME</b>	
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2424.3' FSL & 2444' FWL		8. <b>FARM OR LEASE NAME</b> Federal	
14. <b>PERMIT NO.</b>		9. <b>WELL NO.</b> 18-1	
15. <b>ELEVATIONS</b> (Show whether SP, RT, GR, etc.) 6824' GR		10. <b>FIELD AND POOL, OR WILDCAT</b> Wildcat	
		11. <b>SEC., T., R., N., OR S.E., AND SURVEY OR AREA</b> 18-9N-6E	
		12. <b>COUNTY</b> Rich	13. <b>STATE</b> Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Per verbal approval on May 22, 1979 from Edgar Guynn,  
District Engineer, Salt Lake City, Utah, Class "G" plugs will be set as follows:

8500-8650'	-	100 sx
6800-6950'	-	100 sx
4000-4150'	-	100 sx
2550-2700'	-	100 sx
1950-2100'	-	100 sx (half in & half out of surf. pipe)
Surface	-	10 sx

Rat hole & mouse hole will be plugged as per agreement.

(See reverse side)

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Kary J. Kaltenbacher</u>	TITLE <u>Division Drlg. Engr.</u>	DATE <u>5/22/79</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-  
structions on  
reverse side)Form approved  
Budget Bureau No. 42-2386.5

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. U-25476	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRUST NAME	
2. NAME OF OPERATOR American Quasar Petroleum Co.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 204 Superior Bldg., Casper, Wyoming 82601		8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2424.3' FSL & 2444' FWL At top prod. interval reported below At total depth		9. WELL NO. 18-1	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUDDED 1/3/79		16. DATE T.D. REACHED 5/22/79	
17. DATE COMPL. (Ready to prod.) P&A 5/26/79		18. ELEVATIONS (DF, REB, RT, OR, ETC.)* 6824' GR	
19. ELEV. CASING HEAD ---		20. TOTAL DEPTH, MD & TVD 10,948'	
21. PLUG, BACK T.D., MD & TVD ---		22. IF MULTIPLE COMPL., HOW MANY* ---	
23. INTERVALS DRILLED BY 0-TD		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None	
25. WAS DIRECTIONAL SURVEY MADE Yes		26. TYPE ELECTRIC AND OTHER LOGS RUN BHC-Sonic, DIL & Continuous Dipmeter True Vertical Depth Log GR/TTI	
27. WAS WELL CORRED No		28. CASING RECORD (Report all strings set in well)	
Casing Size		Weight, lb./ft.	
20"		94#	
9-5/8"		40#	
Depth Set (MD)		Hole Size	
75'		30"	
2036'		12 1/4"	
Cementing Record		Amount Pulled	
7 yds. Ready Mix		None	
930 sx		None	
29. LINER RECORD		30. TUBING RECORD	
Size		Top (MD)	
---		Bottom (MD)	
Sacks Cement*		Screen (MD)	
---		---	
31. PERFORATION RECORD (Interval, size and number) ---		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Depth Interval (MD)		Amount and Kind of Material Used	
---		---	
33. PRODUCTION		DATE FIRST PRODUCTION	
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		WELL STATUS (Producing or shut-in) P&A 5/26/79	
DATE OF TEST		HOURS TESTED	
CHOKE SIZE		PROD'N. FOR TEST PERIOD	
OIL—BBL.		GAS—MCF.	
WATER—BBL.		GAS-OIL RATIO	
FLOW. TUBING PRESS.		CASING PRESSURE	
CALCULATED 24-HOUR RATE		OIL—BBL.	
GAS—MCF.		WATER—BBL.	
OIL GRAVITY-API (CORR.)		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
TEST WITNESSED BY		35. LIST OF ATTACHMENTS	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		SIGNED <u>John F. Sindelar</u> TITLE <u>Division Dir. Supt.</u> DATE <u>5/29/79</u>	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 23, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Seals Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
SEE ATTACHMENT			Wasatch
			Twin Creek
			Nugget
			Ankareh
			Thaynes
			T.D.
			Surface
			308
			2,654
			3,994
			6,928
			10,948

ATTACHMENT

COMPLETION REPORT - FEDERAL #18-1

37. DST #1 - 8880-9065' (Thaynes) w/390' inhibitor & WC.  
TO 10 min--w/wk blow, increasing to good blow  
in 5 min; SI 60 min; TO 60 min--w/good blow,  
increased to 1 psi in 20 min, gradually declined  
to fair blow @ end of 60 min; SI 120 min.  
Pulled to rec 390' inhibited WC + 60' MCW--  
n.s. IHP 4074; IFP 194/194; ISIP 743;  
FFP 194/206; FSIP 680; FHP 4074.
- DST #2 - 10,385-10,445' (Woodside) w/250' amm. WC.  
TO 90 min--w/strong blow, increased for 60 min,  
slowly decreased for final 30 min; GTS 65 min  
into flow period; flow rate @ 90 min, 15# on 1/4" chk =  
43 MCFD; SI 120 min. Pulled to rec 948' fluid  
consisting of 250' WC + 698' SW. IHP 4652;  
FFP 145/460 (tool did not shut in; did not have  
final SI); FHP 4681.

# CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794  
Casper, Wyoming 82602

## GAS ANALYSIS REPORT

Company American Quasar Petroleum Company Date April 26, 1979 Lab. No. 30613-2  
Well No. 18-1 Federal Location NE SW 18-9N-6E  
Field Wildcat Formation Thaynes  
County Rich Depth 8880-9065  
State Utah Sampling point Sample Chamber  
Line pressure \_\_\_\_\_ psig; Sample pressure 0 psig; Temperature \_\_\_\_\_ ° F; Container number 136L  
Remarks \_\_\_\_\_

Component	Mole % or Volume %	
Oxygen	<u>0</u>	
Nitrogen	<u>10.72</u>	
Carbon dioxide	<u>0.40</u>	
Hydrogen sulfide	<u>*</u>	
Methane	<u>87.21</u>	Gallons
Ethane	<u>1.59</u>	per MCF
Propane	<u>0.08</u>	<u>0.022</u>
Iso-butane	<u>0</u>	<u>0</u>
N-butane	<u>0</u>	<u>0</u>
Iso-pentane	<u>0</u>	<u>0</u>
N-pentane	<u>0</u>	<u>0</u>
Hexanes & higher	<u>0</u>	<u>0</u>
Total	<u>100.00</u>	<u>0.022</u>

GPM of pentanes & higher fraction 0

Gross btu/cu. ft. @ 60° F. & 14.7 psia (dry basis) 912

Specific gravity (calculated from analysis) 0.611

Specific gravity (measured) 0.615

Remarks: \* H<sub>2</sub>S = Negative to lead acetate paper.

# CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794  
Casper, Wyoming 82602

## GAS ANALYSIS REPORT

Company American Quasar Petroleum Company Date April 26, 1979 Lab. No. 30613-1  
Well No. 15-1 Federal Location NE SW 18-9N-6E  
Field Kildcat Formation Thaynes  
County Rich Depth 8880-9065  
State Utah Sampling point Surface  
Line pressure 1 psig; Sample pressure 0 psig; Temperature 50 ° F; Container number 165L

Remarks

Bad sample. Analysis was corrected for 91.54% air contamination and data may vary due to extreme correction which was applied.

Component	Mole % or Volume %	
Oxygen	0	
Nitrogen	67.65	
Carbon dioxide	7.45	
Hydrogen sulfide	*	
Methane	0	Gallons
Ethane	18.91	per MCF
Propane	4.24	1.163
Iso-butane	0.76	0.248
N-butane	0.52	0.164
Iso-pentane	0.22	0.080
N-pentane	0.18	0.065
Hexanes & higher	0.07	0.032
Total	100.00	1.752

GPM of pentanes & higher fraction 0.177  
Gross btu. cu. ft. @ 60° F. & 14.7 psia (dry basis) 503  
Specific gravity (calculated from analysis) 1.066  
Specific gravity (measured) 1.064

Remarks: \* H<sub>2</sub>S = Negative to lead acetate paper.

# CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794  
Casper, Wyoming 82602

## GAS ANALYSIS REPORT

Company American Quasar Petroleum Company Date April 26, 1979 Lab. No. 30613-1  
Well No. 18-1 Federal Location NE SW 18-9N-6E  
Field Wildcat Formation Thaynes  
County Rich Depth 8880-9065  
State Utah Sampling point Surface  
Line pressure 1 psig; Sample pressure 0 psig; Temperature 50 ° F; Container number 165L

Remarks

Bad sample. Analysis was corrected for 91.54% air contamination and data may vary due to extreme correction which was applied.

Component	Mole % or Volume %	
Oxygen	0	
Nitrogen	67.65	
Carbon dioxide	7.45	
Hydrogen sulfide	*	
Methane	0	
Ethane	18.91	Gallons per MCF
Propane	4.24	1.163
Iso-butane	0.76	0.248
N-butane	0.52	0.164
Iso-pentane	0.22	0.080
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Hexanes & higher	0.07	0.032
Total	100.00	1.752

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Gross btu/cu. ft. @ 60° F. & 14.7 psia (dry basis) 503

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Remarks: \* H<sub>2</sub>S = Negative to lead acetate paper.

# CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794  
Casper, Wyoming 82602

## GAS ANALYSIS REPORT

Company American Quasar Petroleum Company Date April 26, 1979 Lab. No. 30613-2  
Well No. 18-1 Federal Location NE SW 18-9N-6E  
Field Wildcat Formation Thaynes  
County Rich Depth 8880-9065  
State Utah Sampling point Sample Chamber  
Line pressure \_\_\_\_\_ psig; Sample pressure 0 psig; Temperature \_\_\_\_\_ ° F; Container number 136L  
Remarks \_\_\_\_\_

Component	Mole % or Volume %	
Oxygen	<u>0</u>	
Nitrogen	<u>10.72</u>	
Carbon dioxide	<u>0.40</u>	
Hydrogen sulfide	<u>*</u>	
Methane	<u>87.21</u>	Gallons
Ethane	<u>1.59</u>	per MCF
Propane	<u>0.08</u>	<u>0.022</u>
Iso-butane	<u>0</u>	<u>0</u>
N-butane	<u>0</u>	<u>0</u>
Iso-pentane	<u>0</u>	<u>0</u>
N-pentane	<u>0</u>	<u>0</u>
Hexanes & higher	<u>0</u>	<u>0</u>
Total	<u>100.00</u>	<u>0.022</u>

GPM of pentanes & higher fraction 0

Gross btu cu. ft. @ 60° F. & 14.7 psia (dry basis) 912

Specific gravity (calculated from analysis) 0.611

Specific gravity (measured) 0.615

Remarks: \* H<sub>2</sub>S = Negative to lead acetate paper.

JOHNSTON

Schlumberger

technical  
report



## SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0700	-	1/8"
BLOW OFF BOTTOM OF BUCKET			
STRONG BLOW			
	0701	2	" "
	0705	9	" "
	0710	14	" "
	0715	17	" "
	0720	20	" "
	0725	21.5	" "
	0730	23	" "
	0735	24	" "
	0740	25.5	" "
	0745	27.25	" "
OPENED TO PIT	0748	27.5	1/4"
	0750	27	" "
	0755	25	" "
	0800	25	" "
GAS TO SURFACE	0805	24	" "
	0815	20	" "
	0825	16	" "
	0830	15	" "
	0831	-	" "
EQUALIZED MUD	1032	-	" "
PULLED PACKER LOOSE	1047	-	-
STARTED REVERSING	1538	-	-
FINISHED REVERSING	1548	-	-
Cushion Type	Amount	Pressure	Bottom Choke
WATER & AMMONIA	250'	-	Size 15/16"

## MUD DATA

Mud Type	L.S.N.D.	Wt.	8.7
Viscosity	37	Water Loss	9.2
Resist: of Mud	1.5 @ 54 °F.	F <sub>1</sub> of Filtrate	.9 @ 54 °F.
Chloride Content	300		PPM

## EQUIPMENT &amp; HOLE DATA

Type Test	M.F.E. OPEN HOLE
Formation Tested	WOODSIDE
Elevation	7076 Ft.
Net Productive Interval	8 Ft.
Estimated Porosity	10 %
All Depths Measured From	KELLY BUSHING
Total Depth	10445 Ft.
Main Hole/Casing Size	8 1/2
Rat Hole/Liner Size	-
Drill Collar Length	- I.D. 2.7"
Drill Pipe Length	- I.D. 3.7"
Packer Depth(s)	10381 & 10385 Ft.

MULTI-FLOW EVALUATOR  
FLUID SAMPLE DATA

Sampler Pressure	325	P.S.I.G. at Surface
Recovery: Cu. Ft. Gas	.64	
cc. Oil	-	
cc. Water	1980 (SALT WATER)	
cc. Mud	-	
Tot. Liquid cc.	1980	
Gravity	-	°API @ - °F.
Gas/Oil Ratio	-	cu. ft./bbl.

## RESISTIVITY

CHLORIDE  
CONTENT

Recovery Water	.09 @ 54 °F.	56,000 ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	1.5 @ 54 °F.	
Mud Pit Sample Filtrate	.9 @ 54 °F.	300 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
TOTAL RECOVERY	948	-				@ °F.	@ °F.	
WATER CUSHION, TOP RECOVERY	250	-				@ °F.	@ °F.	
SALT WATER, MIDDLE RECOVERY	500	-				@ °F.	.20 @ 54 °F.	23500
SALT WATER, BOTTOM RECOVERY	198	-				@ °F.	.12 @ 54 °F.	53000
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: MUD LOSS 1 FOOT PER HOUR. UNSUCCESSFUL TEST. DID NOT OBTAIN RELIABLE SHUT-IN PERIODS.

Address 204 SUPERIOR BUILDING; CASPER, WYOMING 82601

Company AMERICAN QUASAR PETROLEUM COMPANY

Field WILD CAT

Well FEDERAL #18-1

Location SEC. 18 - 9N - 6E

Test Interval 10385' TO 10445' (UNSUCCESSFUL)

Test # 2

Date 5-14-79

County RICH

State UTAH

Field Report No. 16012 D

Technician RAMIREZ (ROCK SPRINGS)

Test Approved By MR. L.D. ALMOND

No. Reports Requested 24 (11X)

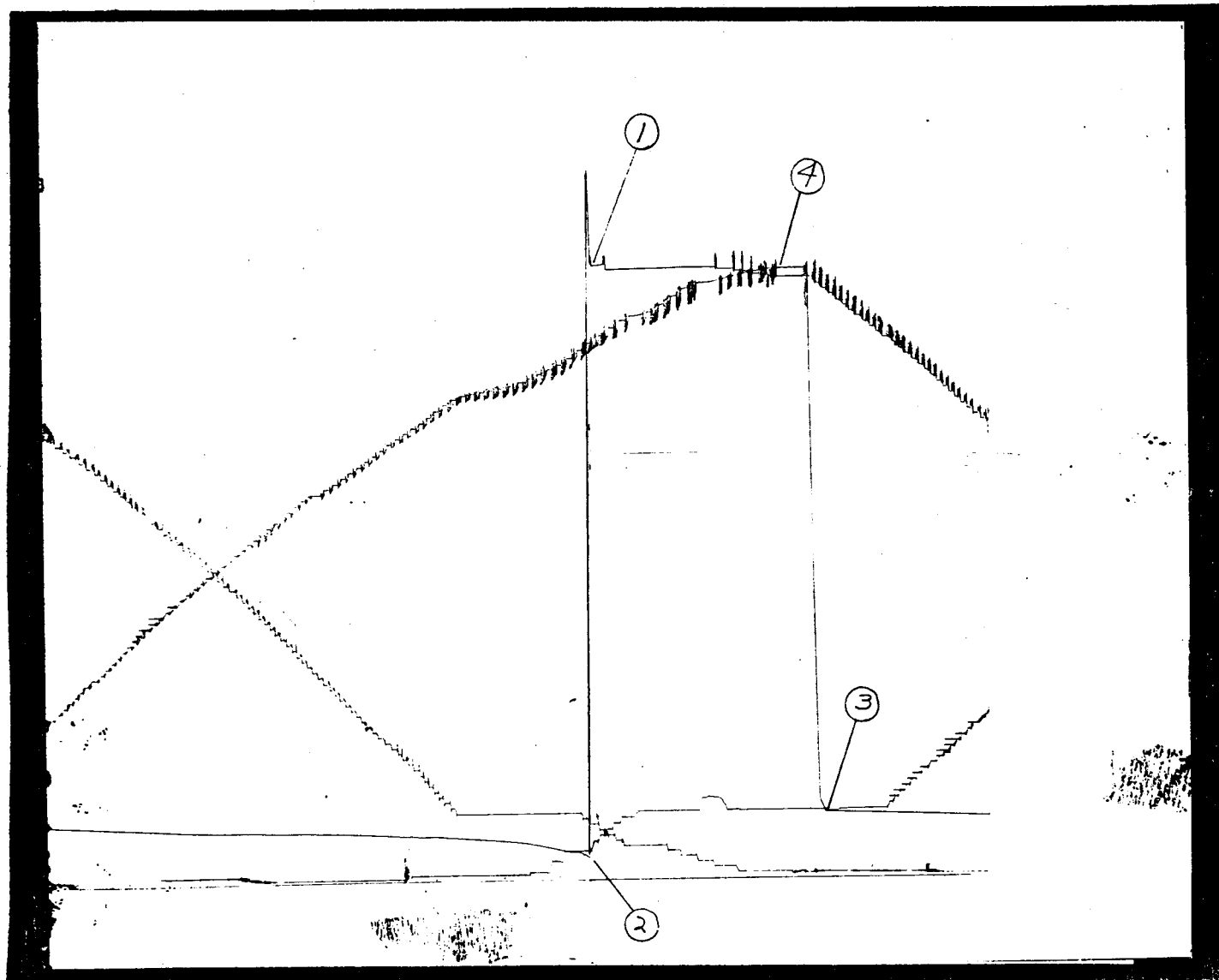
## BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-1180      CAPACITY (P.S.I.): 6400#      DEPTH 10391 FT.  
 PORT OPENING: INSIDE      BOTTOM HOLE TEMP.: 228°F.      FIELD REPORT NO. 16012 D

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	4605.1		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	2	132.4		
FINAL FLOW (2)	3	462.5	212	
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	4	4568.1		

REMARKS: UNSUCCESSFUL TEST.

24+



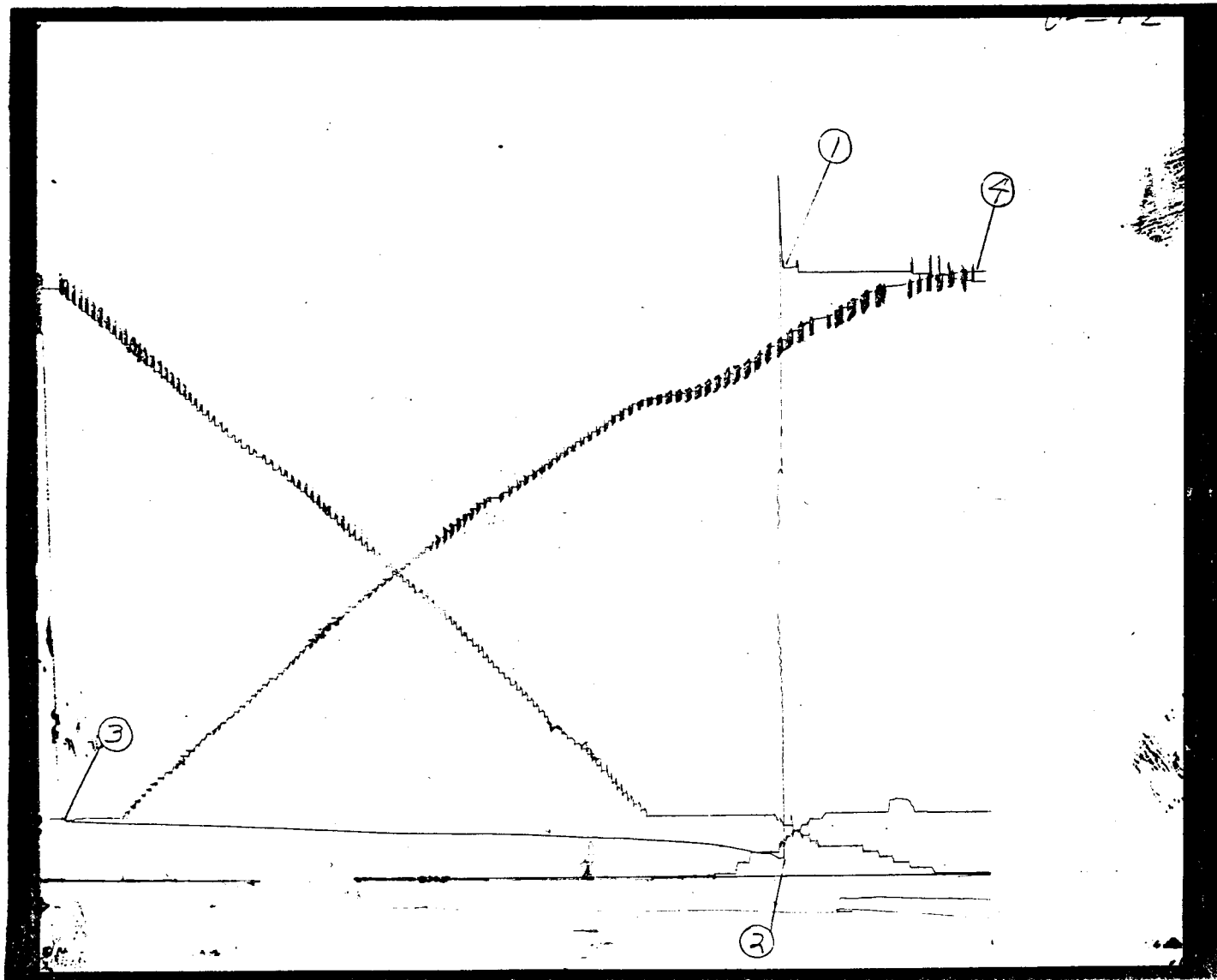
## BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-292      CAPACITY (P.S.I.): 6400#      DEPTH 10397      FT.  
 PORT OPENING: OUTSIDE      BOTTOM HOLE TEMP.: 228°F.      FIELD REPORT NO. 16012 D

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	4655.0		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	2	147.8		
FINAL FLOW (2)	3	481.0	212	
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	4	4616.2		

REMARKS: UNSUCCESSFUL TEST.

24+

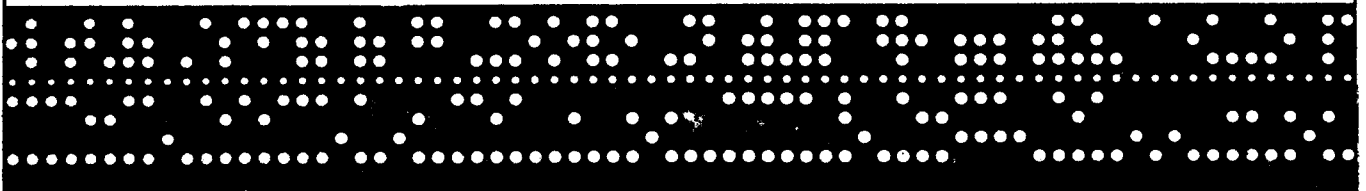




**JOHNSTON**

**Schlumberger**

**computerized  
data  
analysis**



JOHNSTON

Schlumberger

## COMPUTERIZED DATA ANALYSIS

APRIL 20, 1979

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT BUT ADEQUATE SHUT-IN BUILD-UPS DID NOT OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS.

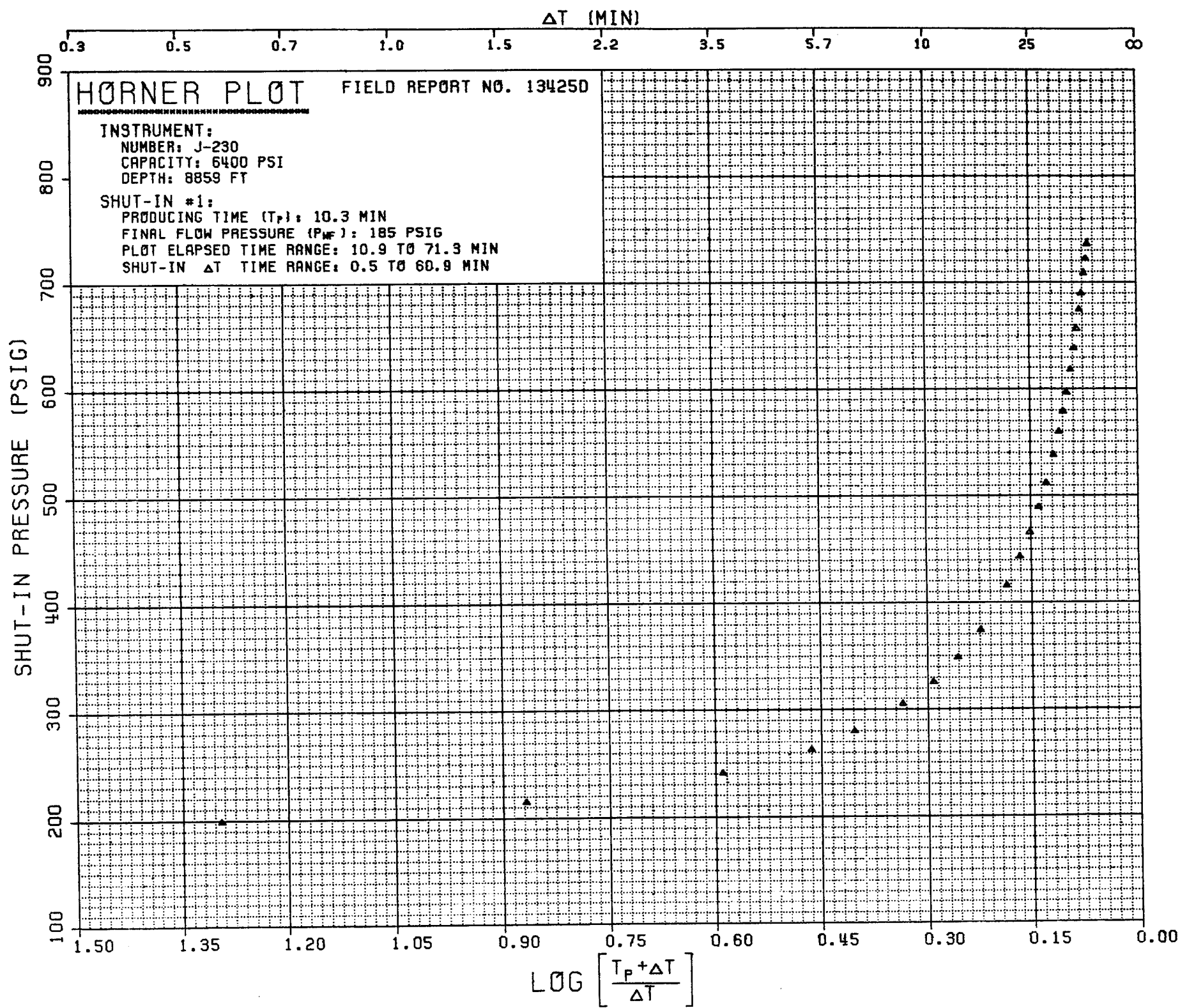
FROM THE CONTOUR OF THE SHUT-IN PRESSURE BUILD-UP CURVES AND THE LOW GAS FLOW RATE A LOW PERMEABILITY FORMATION IS INDICATED. NO ANALYSIS CAN BE MADE FROM THIS TEST DATA.

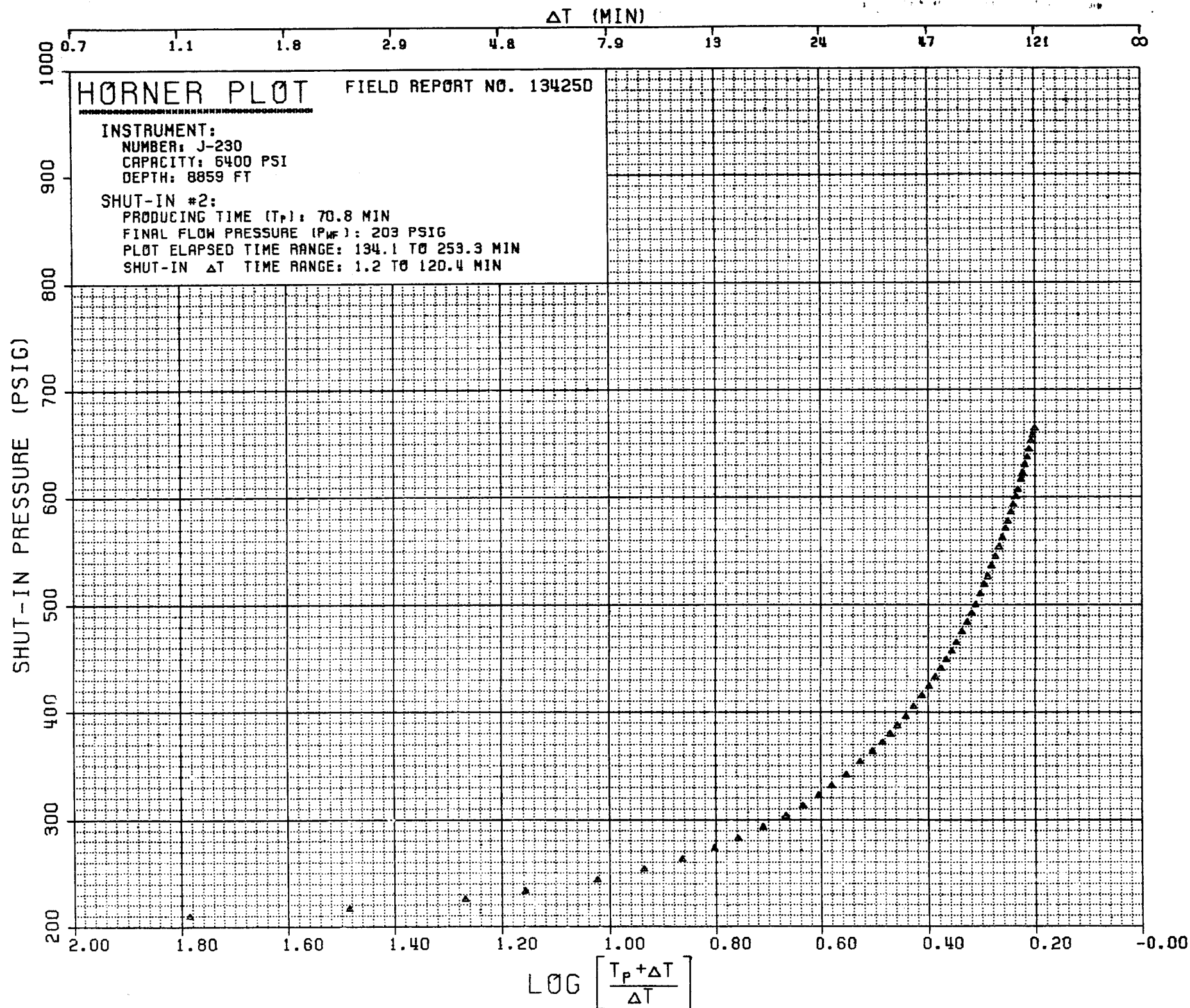
  
DENNIS MYREN  
RESERVOIR EVALUATION  
DEPARTMENT

AMERICAN QUASAR PETROLEUM COMPANY  
FEDERAL #18-1; RICH COUNTY, UTAH  
TEST #1; 8880' TO 9065'  
LOCATION: SEC. 18 - T9N - R6E

FIELD REPORT # 13425 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.





FIELD REPORT NO. 134250

INSTRUMENT:

NUMBER: J-230

CAPACITY: 6400 PSI

DEPTH: 8859 FT

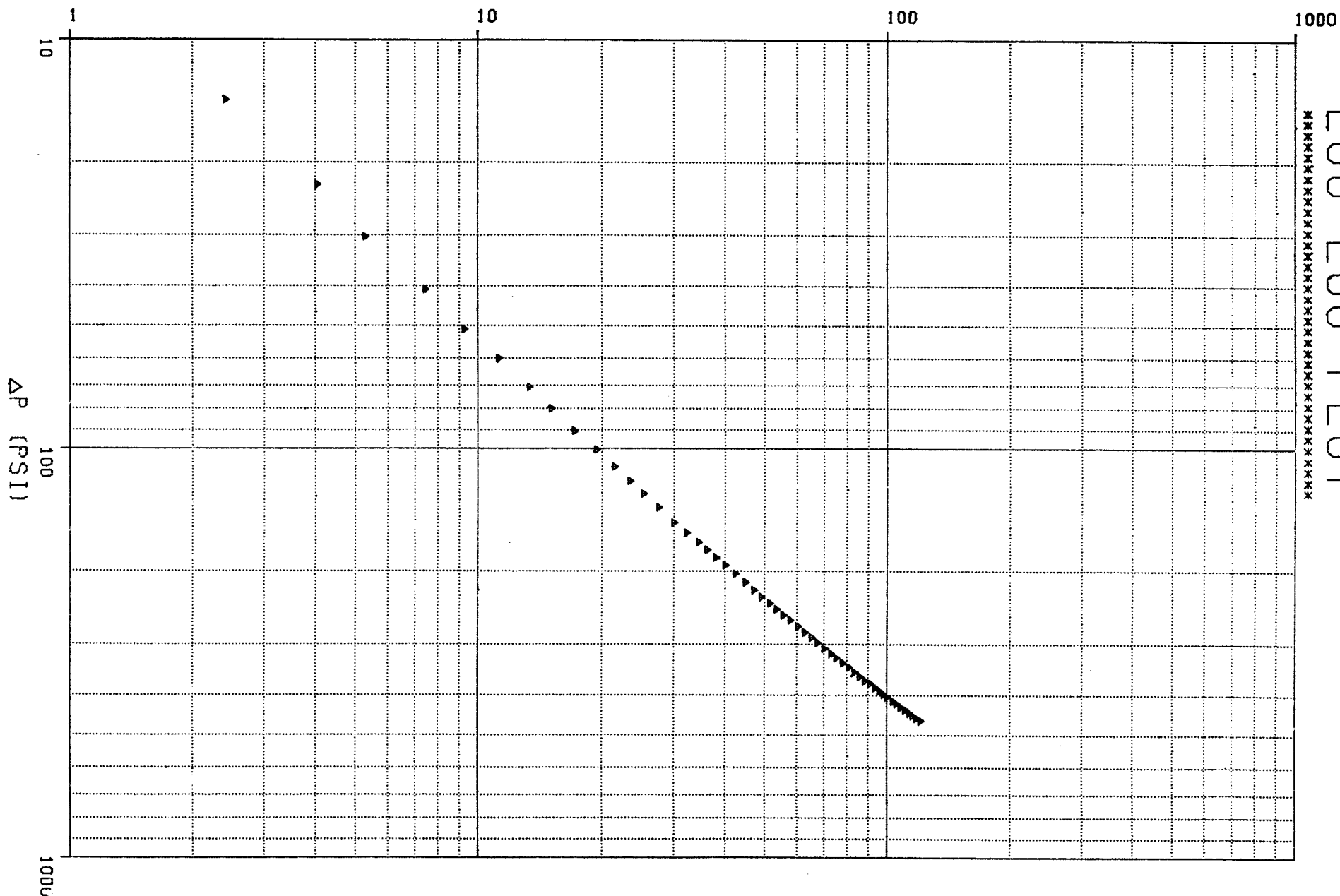
SHUT-IN #2:

FINAL FLOW PRESSURE ( $P_{WF}$ ): 203 PSIG

PLOT ELAPSED TIME RANGE: 135.4 TO 253.3 MIN

SHUT-IN  $\Delta T$  TIME RANGE: 2.4 TO 120.4 MIN

$\Delta T$  (MIN)





# WELL IDENTIFICATION

COMPANY:	AMERICAN QUASAR PETROLEUM COMPANY	CUSTOMER:	SAME
	204 SUPERIOR BLDG.; 201 N. WOLCOTT		
	CASPER, WYOMING 82601		
WELL:	FEDERAL #18-1	LOCATION:	SEC. 18 - T9N - R6E
TEST INTERVAL:	8880' TO 9065'	FIELD:	WILD CAT
TEST NO:	1	TEST DATE:	4-9-79
COUNTY:	RICH	STATE:	UTAH
TECHNICIAN:	GAFFEY (VERNAL)	TEST APPROVED BY:	MR. L.D. ALMOND

# EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	8724	FT.
ELEVATION:	7076	DRILL PIPE I.D.:	-	IN.
TOTAL DEPTH:	9065	DRILL COLLAR LENGTH:	150	FT.
MAIN HOLE/CASING SIZE:	8 3/4	DRILL COLLAR I.D.:	-	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	8874 & 8880	FT.
FORMATION TESTED:	THAYNES		&	FT.
NET PROD. INTERVAL:	-		&	FT.
POROSITY:	-	FT. DEPTHS REF. TO:	KELLY BUSHING	
		%		

# TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	150	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

# SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	1.0 FT.3			
OIL:	- CC			
WATER:	- CC	-	-	-
MUD:	- CC	-	-	-
FILTRATE:		-	-	-
TOTAL LIQUID:	- CC			

# MUD DATA

TYPE:	LOW SOLID NONDISPERSED
WEIGHT:	8.6 LB/GAL.
VISCOSITY:	40 SEC.
WATER LOSS:	8.0 CC
FLUID	RESIST (OHM-M) TEMP (DEG F) CHLOR (PPM)
MUD:	1.2 56
FILTRATE:	1.5 56 400

# REMARKS

NO. OF REPORTS REQUESTED: 28 (14 X'S)

FIELD REPORT NO. 13425D

# SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	0947	-	1/4"
BLOW, 2" IN WATER	0952	-	"
BLOW, 3" IN WATER	0957	-	"
BLOW, 5" IN WATER	0957	-	"
CLOSED FOR INITIAL SHUT-IN	1057	-	"
FINISHED SHUT-IN	1101	-	"
RE-OPENED TOOL			
BLOW, 1" IN WATER INCREASING	1106	-	"
BLOW OFF BOTTOM OF BUCKET	1121	1	"
	1201	-	"
BLOW DECREASED STEADILY TO 9" IN WATER	1201	-	"
CLOSED FOR FINAL SHUT-IN	1401	-	"
FINISHED SHUT-IN	1402	-	-
PULLED PACKER LOOSE			
CUSHION TYPE: AMMONIA WATER			
	25 GAL.	- PSIG	15/16 IN. BOTTOM CHOKE
	96 GAL.	- PSIG	

# RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	XOIL	XWATER	XOTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
DIESEL	90	-	-	-	-	-	-	-	-	-
MUDDY AMMONIA WATER	360	-	-	-	-	-	-	1.6	60	400

FIELD REPORT NO. 13425D

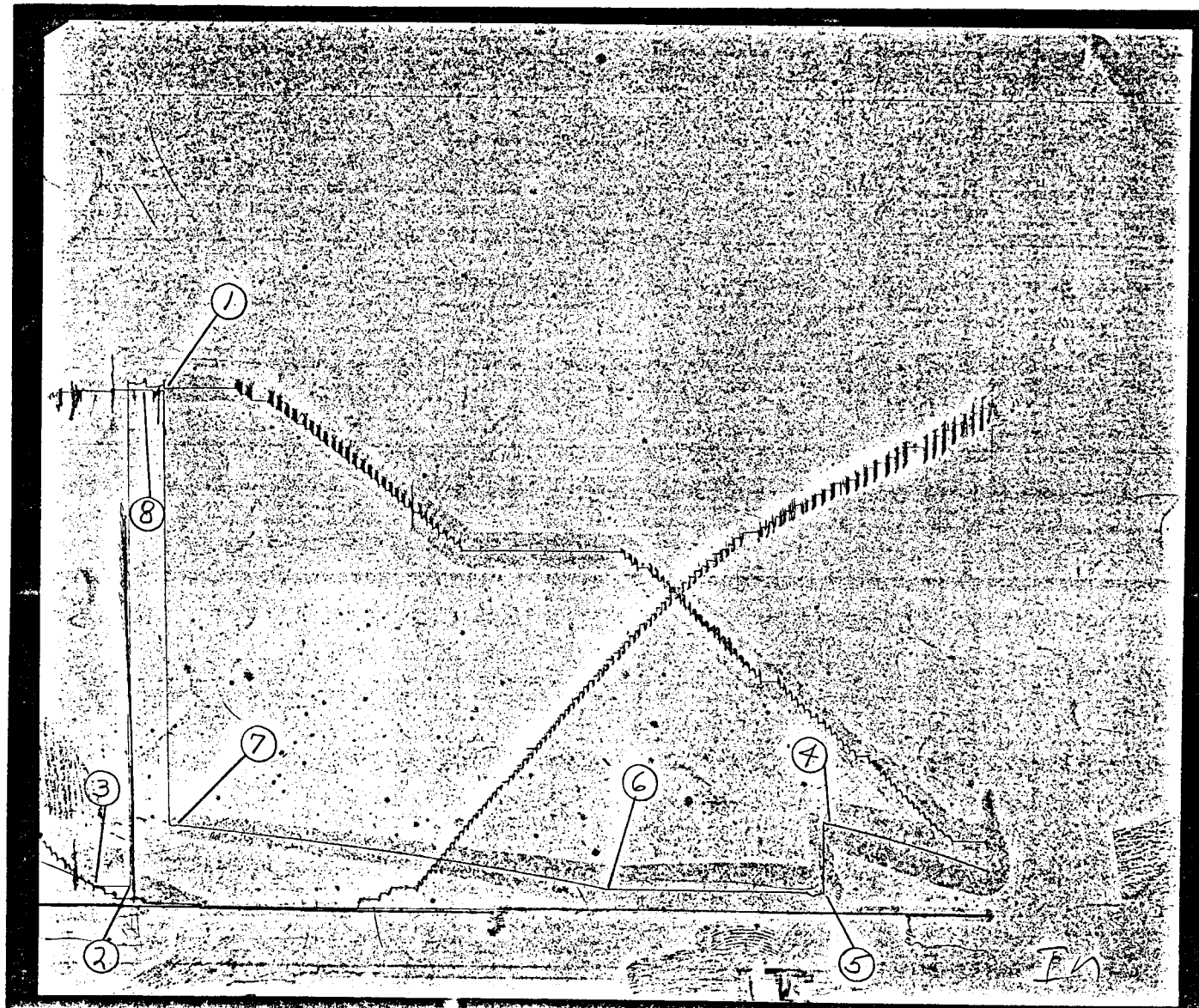
FIELD REPORT NO.: 13425 D

CAPACITY: 6400#

INSTRUMENT NO.: J-230

NUMBER OF REPORTS: 28+

JOHNSTON  
Schlumberger



# PRESSURE LOG

FIELD REPORT NO. 13425D

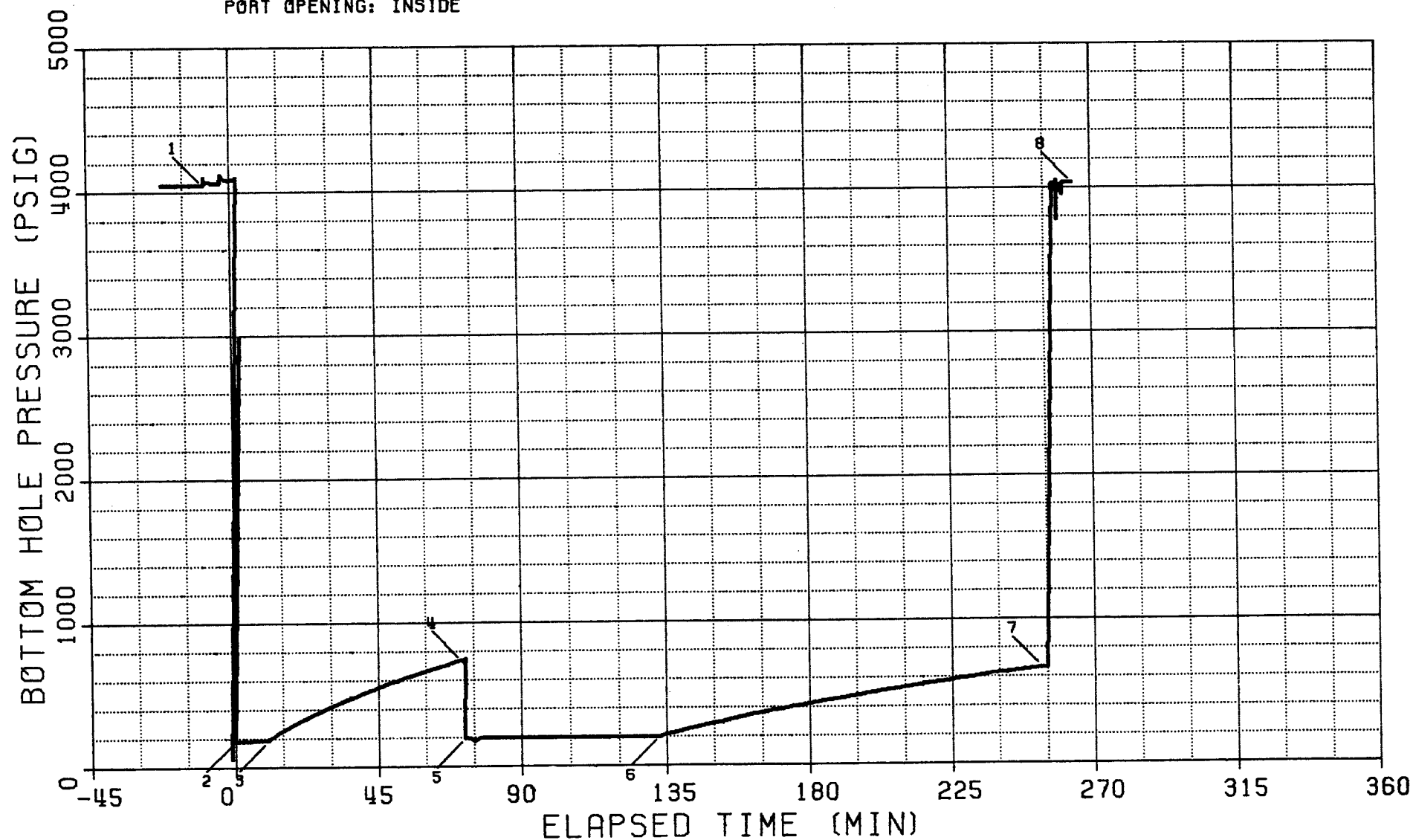
INSTRUMENT:

NUMBER: J-230

CAPACITY: 6400 PSI

DEPTH: 8859 FT

PORT OPENING: INSIDE



# BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-230  
PORT OPENING: INSIDE

CAPACITY (PSI): 6400  
BOTTOM HOLE TEMP (F): 130

DEPTH (FT): 8859  
PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	4047	-8.3
START FLOW	2	184	0.0
END FLOW & START SHUT-IN	3	185	10.4
END SHUT-IN	4	736	71.3
START FLOW	5	198	72.4
END FLOW & START SHUT-IN	6	203	132.9
END SHUT-IN	7	664	253.3
HYDROSTATIC MUD	8	4036	264.3

## \*\*\*\*\* \* SUMMARY OF FLOW PERIODS \* \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	10.4	10.3	184	185
2	72.4	132.9	60.5	198	203

## \*\*\*\*\* \* SUMMARY OF SHUT-IN PERIODS \* \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	10.4	71.3	60.9	185	736	185	10.3
2	132.9	253.3	120.4	203	664	203	70.8

FIELD REPORT NO. 13425D  
INSTRUMENT NO. J-230

## TEST PHASE : FLOW PERIOD # 1

\*\*\*\*\*

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
*****	*****	*****
0.0	0.0	184
5.0	5.0	185
10.0	10.0	185
10.4	10.3	185

## TEST PHASE : SHUT-IN PERIOD # 1

\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 185 PSIG  
WF
2. PRODUCING TIME ["T " ] = 10.3 MIN  
P

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P " ] (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P ] WS WF
*****	*****	*****	*****	*****
10.4	0.0	185		0
11.4	1.0	205	1.054	20
12.4	2.0	220	0.790	35
13.4	3.0	233	0.647	48
14.4	4.0	246	0.554	61
15.4	5.0	258	0.486	73
16.4	6.0	270	0.435	85
17.4	7.0	283	0.393	98
18.4	8.0	295	0.360	110
19.4	9.0	307	0.332	122
20.4	10.0	317	0.308	132
22.4	12.0	340	0.270	155
24.4	14.0	361	0.240	176
26.4	16.0	382	0.216	197
28.4	18.0	402	0.197	217
30.4	20.0	422	0.181	237
32.4	22.0	442	0.167	257
34.4	24.0	460	0.155	275
36.4	26.0	478	0.145	293
38.4	28.0	495	0.136	310
40.4	30.0	513	0.128	328
45.4	35.0	554	0.112	369
50.4	40.0	594	0.100	409
55.4	45.0	631	0.090	446
60.4	50.0	666	0.081	481
65.3	55.0	699	0.075	514
70.3	60.0	731	0.069	546
71.3	60.9	736	0.068	551

FIELD REPORT NO. 13425D  
INSTRUMENT NO. J-230TEST PHASE : FLOW PERIOD # 2  
\*\*\*\*\*

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
72.4	0.0	198
77.4	5.0	198
82.4	10.0	202
87.4	15.0	203
92.4	20.0	203
97.4	25.0	202
102.4	30.0	202
107.4	35.0	202
112.4	40.0	202
117.4	45.0	202
122.4	50.0	203
127.4	55.0	203
132.4	60.0	203
132.9	60.5	203

TEST PHASE : SHUT-IN PERIOD # 2  
\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P "]<sub>WF</sub> = 203 PSIG
2. PRODUCING TIME ["T "]<sub>P</sub> = 70.8 MIN

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P "] WS (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P] WS WF *****
132.9	0.0	203		0
133.9	1.0	209	1.856	6
134.9	2.0	214	1.561	12
135.9	3.0	220	1.391	17
136.9	4.0	225	1.272	22
137.9	5.0	231	1.181	28
138.9	6.0	236	1.107	34
139.9	7.0	241	1.046	39
140.9	8.0	247	0.994	44
141.9	9.0	252	0.948	49
142.9	10.0	257	0.908	54
144.9	12.0	267	0.839	64
146.9	14.0	277	0.782	75
148.9	16.0	287	0.735	85
150.9	18.0	297	0.693	94
152.9	20.0	306	0.657	103
154.9	22.0	316	0.625	113
156.9	24.0	325	0.597	123
158.9	26.0	335	0.571	132
160.9	28.0	344	0.548	141

FIELD REPORT NO. 13425D  
INSTRUMENT NO. J-230

## TEST PHASE: SHUT-IN PERIOD # 2

\*\*\*\*\*

1. FINAL FLOW PRESSURE ["P " ] = 203 PSIG

2. PRODUCING TIME ["T " ] = 70.8 MIN  
P

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P " ] (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P <sub>o</sub> ] WS WF
*****	*****	*****	*****	*****
162.9	30.0	354	0.527	152
167.9	35.0	375	0.481	172
172.9	40.0	396	0.443	193
177.9	45.0	416	0.411	214
182.9	50.0	435	0.383	233
187.9	55.0	454	0.359	252
192.9	60.0	473	0.339	270
197.9	65.0	491	0.320	289
202.9	70.0	509	0.304	306
207.9	75.0	526	0.289	323
212.9	80.0	543	0.275	341
217.9	85.0	559	0.263	357
222.9	90.0	575	0.252	373
227.9	95.0	591	0.242	388
232.9	100.0	606	0.233	403
237.9	105.0	621	0.224	419
242.9	110.0	636	0.216	433
247.9	115.0	650	0.208	448
252.9	120.0	663	0.201	461
253.3	120.4	664	0.201	462



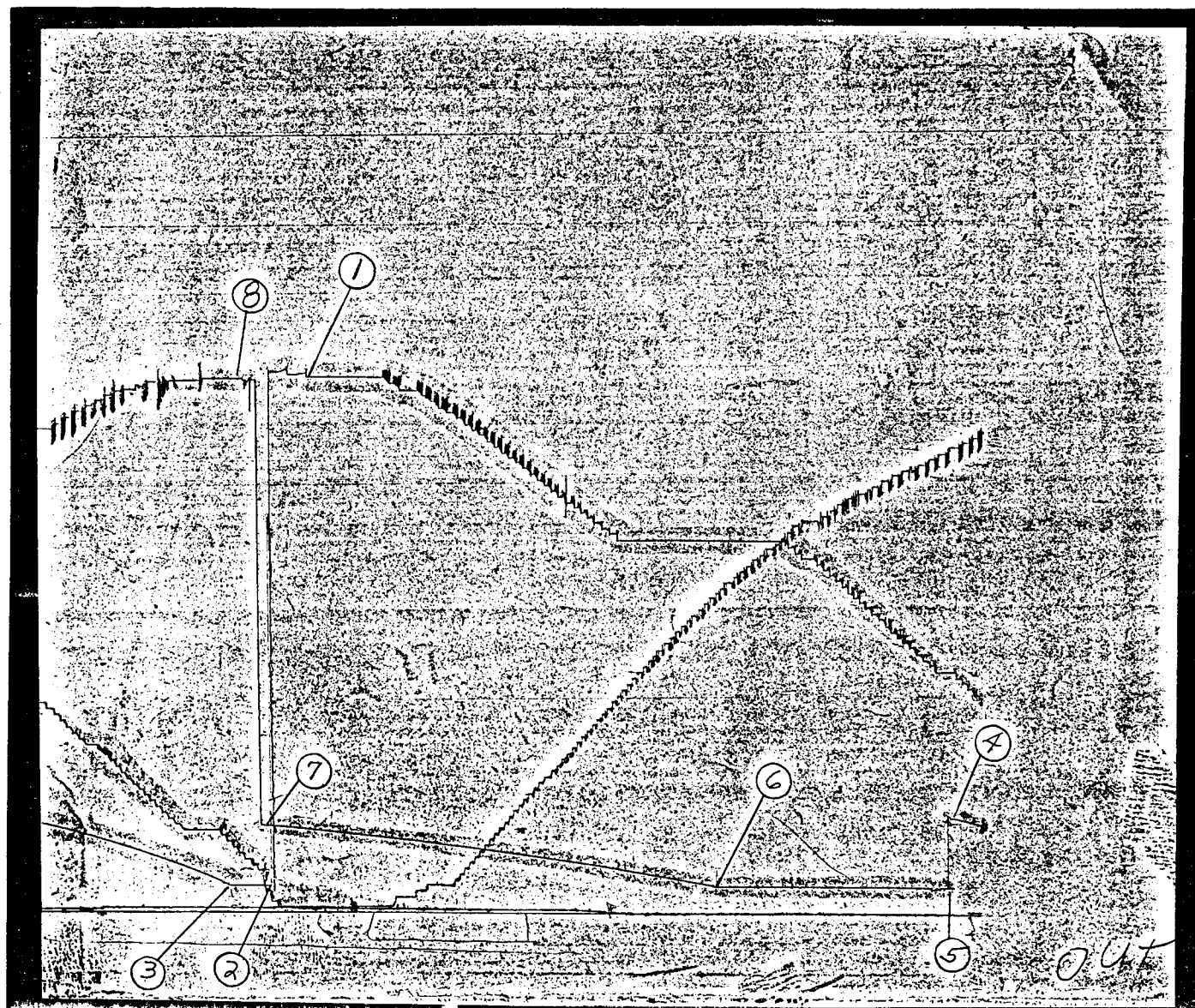
FIELD REPORT NO.: 13425 D

CAPACITY: 6400#

JOHNSTON  
Schlumberger

INSTRUMENT NO.: J-510

NUMBER OF REPORTS: 28+



# BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-510  
PORT OPENING: OUTSIDE

CAPACITY (PSI): 6400  
BOTTOM HOLE TEMP (F): 130

DEPTH (FT): 8886

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	4080	-9.2
START FLOW	2	212	0.0
END FLOW & START SHUT-IN	3	213	11.1
END SHUT-IN	4	747	71.5
START FLOW	5	212	72.3
END FLOW & START SHUT-IN	6	212	134.6
END SHUT-IN	7	673	254.9
HYDROSTATIC MUD	8	4061	262.0

## \*\*\*\*\* \* SUMMARY OF FLOW PERIODS \* \*\*\*\*\*

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	11.1	11.1	212	213
2	72.3	134.6	62.3	212	212

## \*\*\*\*\* \* SUMMARY OF SHUT-IN PERIODS \* \*\*\*\*\*

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	11.1	71.5	60.4	213	747	213	11.1
2	134.6	254.9	120.3	212	673	212	73.4

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

*Copy*

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-25476

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

18-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

18-9N-6E

12. COUNTY

Rich

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Dry

2. NAME OF OPERATOR

American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR

204 Superior Bldg., Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)  
At surface

2424.3' FSL & 2444' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, WT, GR, etc.)

6824' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Per verbal approval on May 22, 1979 from Edgar Guynn,  
District Engineer, Salt Lake City, Utah, Class "G" plugs were set as follows:

8500-8650'	-	100 sx
6800-6950'	-	100 sx
4000-4150'	-	100 sx
2550-2700'	-	100 sx
1950-2100'	-	100 sx (half in & half out of surf. pipe)
Surface -		10 sx

Plugged rat hole & mouse hole w/cement plugs.

Job complete May 26, 1979.

(See reverse side)

18. I hereby certify that the foregoing is true and correct

SIGNED

Kary J. Kaltenbacher  
Kary J. Kaltenbacher

TITLE

Division Dirg. Engr.

DATE

5/29/79

(This space for Federal or State office use)

307 - 265 - 3362

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

GPO 680-160

Set 75' of 30" conductor - cemented to surface.

Set 2036' of 9-5/8" csg. - cemented to surface w/930 sx.

### Electric Log Tops

Wasatch -	surface
Twin Creek -	308'
Nugget -	2,654'
Ankareh -	3,994'
Thaynes -	6,928'
T.D.	10,948'

c/c to: State of Utah, Div. of Oil, Gas & Mining

June 13, 1979

MEMORANDUM

TO: FILE

FROM: Michael T. Minder *M.T.M.*  
Geological Engineer  
Division of Oil, Gas  
and Mining

Re: American Quasar  
Well No. Federal 18-1  
Sec. 18, T. 9N, R. 6E,  
Rich County, Utah

The above well is in the process of being abandoned at this time. The location is being graded; there are drilling pipes stacked on racks and in piles about the site.

A 400-barrel upright tank and a 500-barrel horizontal tank are also on location. A D-7 cat is being used for grading.

There may be a problem with gas leaking from the well bore. The reserve pond located about 180' from the well head has a thin film of oil and chemicals on its surface and there is gas bubbling up from the pond. The area smells strongly of chemicals; especially sulphur.



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE MCINTYRE

June 26, 1979

American Quasar Petroleum Company  
204 Superior Bldg.  
Casper, Wyoming 82601

Re: Well No. Federal 18-1  
Sec. 18, T. 9N, R. 6E,  
Rich County, Utah

Gentlemen:

According to our records, a "Well Completion Report", filed with this office 5-29-79 from above referred to well indicates the following electric logs were run: BHC-Sonic, DIL & Continuous Dipmeter

To date, we have not received the Continuous Dipmeter. Also, the TVD log indicates GR/TTI logs were also run. We have not received the GR/TTI logs as yet.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Please send a copy of the above logs to this office as soon as possible. Your prompt attention the the above will be greatly appreciated..

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Avila*

KATHY AVILA  
RECORDS CLERK



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

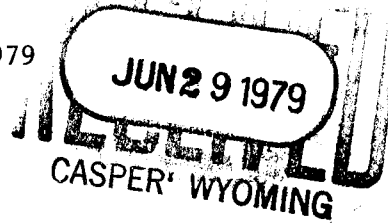
CHARLES R. HENDERSON  
Chairman

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
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EDWARD T. BECK  
E. STEELE McINTYRE

CLEON B. FEIGHT  
Director



June 26, 1979



American Quasar Petroleum Company  
204 Superior Bldg.  
Casper, Wyoming 82601

Re: Well No. Federal 18-1  
Sec. 18, T. 9N, R. 6E,  
Rich County, Utah

Gentlemen:

According to our records, a "Well Completion Report", filed with this office 5-29-79 from above referred to well indicates the following electric logs were run: BHC-Sonic, DIL & Continuous Dipmeter

To date, we have not received the Continuous Dipmeter. Also, the TVD log indicates GR/TTI logs were also run. We have not received the GR/TTI logs as yet.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Please send a copy of the above logs to this office as soon as possible. Your prompt attention the the above will be greatly appreciated..

Very truly yours,

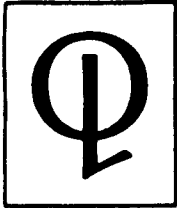
DIVISION OF OIL, GAS, AND MINING

*Kathy Avila*

KATHY AVILA  
RECORDS CLERK

*Copy of this letter mailed to our Denver office for further handling. American Quasar Casper MS.*

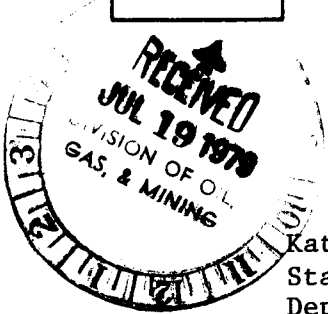




# AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.  
TELEPHONE (303) 861-8437

July 17, 1979



Kathy Avila - Records Clerk  
State of Utah  
Dept. of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Ms. Avila:

In reference of your letter dated June 26, 1979, you requested the Continuous Dipmeter and the GR/TTI logs on our Federal 18-1 well, Sec. 18, T9N, R6E Rich County.

Schlumberger will be sending you two copies of the Continuous Dipmeter and the GR/TTI is the "travel time integrater" which is already on the Sonic.

Sincerely,

*Cindi Been*

Cindi Been